

Kineros Discretization Step Problems

Posted by bjforsee - 2009/10/23 16:30

Hello,

I am having problems with the Discretization step. Specifics: single watershed, area = ~35 sq. miles, steep slopes, Arc 9.2.

My projections (DEM, Layer, etc.) are GCS_1983 and I am using a filled DEM with no discernible gaps.

1. If I use CSA units of flow accumulation with a %area of 2 or higher I get gaps between the planes.
2. If I use CSA units of flow accumulation with a %area of 1, I do not get gaps in the planes, but I get null values for some of the parameters in the attribute table, and I am unable to complete the soil parametrization step (I assume b/c of the null values).
3. If I use CSA units of acres, Arc locks up/freezes and I have to close ArcGIS and start over.

Any suggestions?

Thanks.

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Re:Kineros Discretization Step Problems

Posted by bjforsee - 2009/10/23 17:17

Attached is the DEM I am using. The watershed outlet lat/lon are

114D,31',46.7"W, 39D,12',59.7"N

Nevermind, I see that the file size is too big.

It is a 10meter DEM from the USGS Seamless Server.

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Re:Kineros Discretization Step Problems

Posted by isburns - 2009/11/06 00:24

Hi,
Your data is in a geographic coordinate system and must be in a projected coordinate system. Geographic coordinate systems define locations using longitude and latitude and are represented as locations on a 3-D spheroid. Projected coordinate systems define locations using x,y coordinates on a

flat 2-D grid.

The help system in ArcGIS can tell you a lot more about projections and coordinate systems than we really need to get in to here. Basically all you need to know is to use a projected coordinate system instead of a geographic one. AGWA requires a projected system in order to calculate distances, areas, and other properties of the watershed which are all dependent on the projection selected.

Hope that helps.

Shea

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